

DEVICE AND METHOD OF TEMPERATURE COMPENSATING OPTICAL COMPONENT

ABSTRACT OF THE DISCLOSURE

A device and a method of temperature compensating are disclosed. The device and method are employed for temperature compensation of a section of optical fiber. The device and method are useful for limiting any change in optical properties of the section of optical fiber or optical structures that can be corrected by changing the linear dimension accordingly. Such optical properties include the characteristic wavelengths of FBGs, Fabry-Perot cavities, and the like. The device includes a composite plate comprising plural fiber laminae, each of which has a designed orientation, and having a specific temperature-dependent characteristic in a direction for compensating an optical component positioned thereon having a temperature-dependent deformation, wherein said specific temperature-dependent characteristic is determined by said designed orientations of said plural fiber laminae.